

***FlyBy Math™* Alignment**  
**Priority Academic Student Skills**  
**Mathematics Content Standards**

**Standard 2: Relations and Functions - The student will use relations and functions to model number relationships.**

<b>Skills</b>	<b><i>FlyBy Math™</i> Activities</b>
3. Calculate the slope of a line using a graph, an equation, two points or a set of data points.	--Interpret the slope of a line in the context of a distance-rate-time problem.  --Use tables, graphs, and equations to solve aircraft conflict problems.
5. Slope Interpretation  b. Interpret the slope and intercepts within the context of everyday life (e.g., telephone charges based on base rate [y-intercept] plus rate per minute [slope]).	--Interpret the slope of a line in the context of a distance-rate-time problem.
7. Solve a system of linear equations by graphing, substitution or elimination.	--Apply mathematics to solving distance, rate, and time problems for aircraft conflict scenarios.  --Use graphs to compare airspace scenarios for both the same and different starting conditions and the same and different constant (fixed) rates.
8. Problem Solving  b. Solve two-step and three-step problems using concepts such as rules of exponents, probability, rate, distance, ratio and proportion, measures of central tendency and percent.	--Apply mathematics to solving distance, rate, and time problems for aircraft conflict scenarios.

**Standard 3: Data Analysis and Statistics - The student will use data analysis and statistics to formulate and justify predictions from a set of data.**

<b>Skills</b>	<b><i>FlyBy Math™</i> Activities</b>
b. Make valid inferences, predictions, and/or arguments based on data from graphs, tables, and charts.	--Use tables, bar graphs, line graphs, a Cartesian coordinate system, and equations to model aircraft conflicts and predict outcomes.